

Substitute for Form 1449/PTO				Complete if Known	
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 2px solid black; border-radius: 50%; padding: 10px; margin-right: 10px; text-align: center;"> O I P E JUL 21 2005 PATENT & TRADEMARK OFFICE </div> <div> <h2 style="margin: 0;">INFORMATION DISCLOSURE</h2> <h2 style="margin: 0;">STATEMENT BY APPLICANT</h2> <p style="margin: 5px 0 0 20px;">(use as many sheets as necessary)</p> </div> </div>				Application Number	10/659,009
				Filing Date	September 10, 2003
				First Named Inventor:	Remus Nicolaescu et al.
				Art Unit	2824 2828
				Examiner Name	Unknown
Attorney Docket Number	42P17104				

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
DW ↓ ✓	1	US-	4,389,617	06-21-1983	Kurnit	<div style="font-size: 4em; transform: rotate(45deg); position: relative; top: -50%; left: -50%;">X</div>
	2	US-	4,571,727	02-18-1986	Nishizawa et al.	
	3	US-	4,812,682	03-14-1989	Holmes	
	4	US-	5,033,051	07-16-1991	Werner	
	5	US-	5,673,281	09-30-1997	Byer	
	6	US-	5,832,006	11-03-1998	Rice et al.	
	7	US-	6,388,800 B1	05-14-2002	Christodoulides et al.	
	8	US-	6,433,922 B1	08-13-2002	Ghera et al.	
	9	US-	6,456,425 B1	09-24-2002	Foursa et al.	
	10	US-	6,519,082 B2	02-11-2003	Ghera et al.	
		US-				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
DW ↓	11	PCT/US	03/34377 /	09-28-2004	PCT International Search Report	<div style="font-size: 4em; transform: rotate(45deg); position: relative; top: -50%; left: -50%;">X</div>
	12	DE	4113354 A1 /	10-29-1992	Siemens AG	
	13	EP	0561672 A1 /	09-22-1993	Commissariat A L'energie Atomique	
	14	EP	0482630 A1 /	04-29-1992	Sumitomo Electric Industries, Ltd.	
	15	GB	2373628 A /	09-25-2002	Queen Mary & Westfield College	
	16	JP	62-120090 /	06-01-1987	Aoki	

Examiner Signature		Date Considered	12/7/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/659,009
				Filing Date	September 10, 2003
				First Named Inventor:	Remus Nicolaescu et al.
				Art Unit	2874 2828
				Examiner Name	Unknown
Sheet	2	of	2	Attorney Docket Number	42P17104
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
DW	17	✓ CLAPS, R. et al., "Stimulated Raman Scattering in Silicon Waveguides", <i>ELECTRONICS LETTERS</i> , Vol. 38, No. 22, 24 October 2002.			
↓	18	✓ CLAPS, R. et al., "Observation of Raman Emission in Silicon Waveguides at 1.54μm", <i>OPTICS EXPRESS</i> , Vol. 10, No. 22, 4 November 2002, pp. 1305-1313.			
	19	✓ CLAPS, R. et al., "Observation of Stimulated Raman Amplification in Silicon Waveguides", <i>OPTICS EXPRESS</i> , Vol. 11, No. 15, 28 July 2003, pp. 1731-1739.			
	20	✓ RALSTON, J. M. et al., "Spontaneous-Raman-Scattering Efficiency and Stimulated Scattering in Silicon", <i>Physical Review B</i> , Vol. 2, No. 6, 15 September 1970, pp. 1858-1862.			
	21	SAITO, T. et al., "Spontaneous Raman Scattering In [100], [110], and [11-2] Directional GaP / Waveguides", <i>Journal of Applied Physics</i> , Vol. 90, No. 4, 15 August 2001, pp. 1831-1835.			
	22	✓ SAITO, T. et al., "Raman Gain and Optical Loss in AlGaP Waveguides", <i>Journal of Applied Physics</i> , Vol. 87, No. 7, 1 April 2000, pp. 3399-3403.			
	23	✓ SUTO, K. et al., "Semiconductor Raman Amplifier for Terahertz Bandwidth Optical Communication", <i>Journal of Lightwave Technology</i> , Vol. 20, No. 4, April 2002, pp. 705-711.			
↓	24	TANG, C.K. et al., "Development of a Library of Low-Loss Silicon-On-Insulator Optoelectronic Devices", <i>IEEE PROCEEDINGS: OPTOELECTRONICS</i> , Vol. 143, No. 5, October 1996, pp. 312-315.			

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